

10/700 209

CofC

PTO/SB/21 (09-06)

Approved for use through 03/31/2007. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paper Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Patent Number	7,049,526	
	Issue Date	March 23, 2006	
	First Named Inventor	Jones, Christopher C.	
	Art Unit	2841	
	Examiner Name	Semenenko, Yuriy	
Total Number of Pages in This Submission	6	Attorney Docket Number	P17172

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Request for Certificate of Correction, Certificate of Correction Forms (3 pages), and Acknowledgement Postcard
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application		
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		
Remarks		Certificate APR 11 2007 of Correction

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Buckley, Maschoff & Talwalkar LLC		
Signature			
Printed name	Nandu A. Talwalkar		
Date	April 5, 2007	Reg. No.	41,339

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Attn: Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Signature			
Typed or printed name	Edith Martin	Date	April 5, 2007

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

APR 11 2007



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: JONES et al.

Patent No.: 7,049,526

Issue Date: March 23, 2006

For: MICROVIA STRUCTURE AND
FABRICATION

) Confirmation No.: 4178

) Group Art Unit: 2841

) Examiner: Semenenko, Yuriy

) **REQUEST FOR CERTIFICATE OF**
) **CORRECTION Under 37 CFR § 1.322**

) Docket No.: P17172

) Buckley, Maschoff & Talwalkar LLC
) Attorneys for Intel Corporation
) 50 Locust Avenue
) New Canaan, CT 06840

CERTIFICATE OF MAILING UNDER 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Att: Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on April 5, 2007.

Dated: April 5, 2007

By:


Edith Martin

Att: Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The above-identified Letters Patent includes errors reflecting no fault on the Applicants' part. Specifically, the Letters Patent does not reflect the Examiner's Amendment set forth in the March 10, 2006 Notice of Allowability. The enclosed Certificate of Correction is believed to remedy this error and grant thereof is respectfully requested.

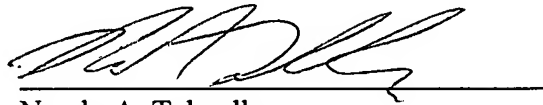
APR 11 2007

The Commissioner is hereby authorized to charge any additional fees that may be required, or credit any overpayment, to Deposit Account 50-1852.

Respectfully submitted,

April 5, 2007

Date



Nandu A. Talwalkar
Registration No. 41,339
Buckley, Maschoff & Talwalkar LLC
Attorneys for Intel Corporation
50 Locust Avenue
New Canaan, CT 06840
(203) 972-0049

APR 11 2007

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**Page 1 of 3

PATENT NO. : 7,049,526
APPLICATION NO. : 10/700,209
ISSUE DATE : 5/23/2006
INVENTOR(S) : Jones, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

9. A method comprising:

fabricating a first metallization layer comprising a first microvia pad; and

fabricating a second metallization layer comprising a second microvia pad wherein the [a]

microvia pad having a base and a projection extending from the base; and

fabricating an intermediate layer disposed between the first metallization layer and the second metallization layer, the intermediate layer comprising a microvia electrically coupled to the first microvia pad and to the second microvia pad wherein the [a] microvia having plurality of surfaces facing a plurality of surfaces of the projection.

10. [A] The method according to Claim 9, further comprising:

fabricating an electroless conductor disposed between the microvia and the microvia pad,
wherein the microvia pad and the microvia are composed of an electrolytic conductor.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

BUCKLEY, MASCHOFF & TALWALKAR
50 Locust Avenue
New Canaan, CT 06840

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application for to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

APR 11 2007

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**Page 2 of 3

PATENT NO. : 7,049,526
APPLICATION NO. : 10/700,209
ISSUE DATE : 5/23/2006
INVENTOR(S) : Jones, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

11. [A] The method according to Claim 10, wherein fabricating the microvia pad comprises:
fabricating the base; and
fabricating the projection extending from the base after fabricating the base.
12. A system comprising:
an integrated circuit package comprising:
 a first metallization layer comprising a first microvia pad;
 a second metallization layer comprising a second microvia pad having a projection extending in
a direction toward the first microvia pad; and
 an intermediate layer disposed between the first metallization layer and the second metallization
layer, the intermediate layer comprising a microvia electrically coupled to the first microvia pad and to
the second microvia pad; and
a double data rate memory electrically coupled to the integrated circuit package.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

BUCKLEY, MASCHOFF & TALWALKAR
50 Locust Avenue
New Canaan, CT 06840

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application for to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

APR 11 2007

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**Page 3 of 3

PATENT NO. : 7,049,526
APPLICATION NO. : 10/700,209
ISSUE DATE : 5/23/2006
INVENTOR(S) : Jones, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

13. [A] The system according to Claim 12, wherein the microvia includes a plurality of surfaces facing a plurality of surfaces of the projection.
14. [A] The system according to Claim 12, wherein the projection is an integral portion of the second microvia pad.
15. [A] The system according to Claim 12, further comprising:
a motherboard electrically coupled to the integrated circuit package and to the memory.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

BUCKLEY, MASCHOFF & TALWALKAR
50 Locust Avenue
New Canaan, CT 06840

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application for to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

APR 11 2007